

2022/2023 ILFI Energy and Carbon Technical Advisory Group Scope of Work

ILFI's community of practice is vital to informing the technical development, continued industry leadership, and transparency of ILFI's programs. Members of ILFI's Technical Advisory Groups (TAGs) are critical volunteer partners that represent industry leadership and deep technical expertise in relevant topic areas and are able to weigh in on decisions pertaining to the development or implementation of ILFI's program requirements.

Operational energy has been the cornerstone of building sustainability initiatives since they were launched. Technology developments, climate action targets, policy changes, and incentives have all evolved significantly in just the last decade. The concept of embodied carbon as it pertains to buildings has emerged from the shadows of operational energy, and strategies for how we consider embodied carbon throughout the lifecycle of products and buildings is evolving rapidly.

The Living Building Challenge, Core, Zero Energy, LPC, and Zero Carbon programs all seek to move the building industry toward greater adoption of regenerative buildings strategies. These ILFI programs envision a safer, resilient, and decentralized energy infrastructure powered entirely by carbon-free renewable energy resources, while also accounting for and reducing total embodied carbon emissions throughout the entire lifecycle of the building.

The goal of the Energy and Carbon Technical Advisory Group is to ensure that ILFI programs represent the greatest impact of what building projects, both new and renovation projects, can do to achieve aggressive energy and carbon reduction targets and be combustion and fossil-fuel free. It is charged with informing and supporting the continued leadership and evolution of key goals and requirements of the Living Building Challenge, Core, Zero Energy, and Zero Carbon programs. Key focus areas may include:

- identifying equivalencies to Green-e certification and alternative new and innovative carbon offsets approaches, including assessment of soil enhancements
- carbon use intensity (CUI) work including building-specific targets, carbon caps, and best practices and tools;
- international equivalency of energy baselines across multiple tools and softwares to show progress; and
- offsite renewable agreements processes and market best practices (e.g., establishing PPAs, scalability beyond regional agreements).

Expertise will be sought from global stakeholders and representatives with expertise in carbon offsets, renewable energy markets, energy baselining tools, modeling tools, standards, and codes, as well as existing and emerging technologies that address operational and embodied carbon impacts. Diverse representation is sought from building energy and carbon experts and practitioners from architecture, engineering, construction, government, utilities, academia, and more.

Meetings are envisioned to occur 6 times per year for 1.5-2 hours per meeting. Review of materials and proposals will also be requested between meetings. Additional voluntary working groups to focus on select topics may be established as needed.